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1909/09

RUTGERS SCIENTIFIC SCHOOL

THE STATE COLLEGE

FOR THE BENEFIT OF

AGRICULTURE AND THE MECHANIC ARTS

NEW BRUNSWICK, N. J.

Forty-fifth Annual Report, October 31, 1909

TRENTON, N. J.
MACCRELLISH & QUIGLEY, STATE PRINTERS.

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IRVING S. UPSON, *Secretary and Treasurer*

Report of the State Board of Visitors

To His Excellency John Franklin Fort, Governor of the State of New Jersey:

HONORED SIR—The Board of Visitors to the State Agricultural College herewith present their forty-fifth annual report upon the present condition and courses of instruction at that institution, as required by the act creating the Board, entitled “An act appropriating scrip for the public lands granted to the State of New Jersey by the act of Congress approved July second, one thousand eight hundred and sixty-two,” and approved 4th April, 1864.

The members of the Board made an annual examination of the students pursuing the regular and special courses of instruction on the 5th of March, 1909. They also visited the laboratories, the draughting room, the military drill hall, the collections of the institution and the farm provided for the State Agricultural College by the Trustees of Rutgers College. They also attended the closing exercises of the classes in the Short Courses in Agriculture.

During the year the membership of the Faculty has been 40, and all but four of this number have given instruction in the Scientific School.

The enrollment of students for the year was 510; graduate students, 3; seniors, 32; juniors, 35; sophomores, 48; freshmen, 117; special students, not candidates for a degree, 60. There were also 70 students in the Classical School and 145 pupils in attendance at the Preparatory School. The degree of Bachelor of Science was conferred upon 32 graduates in June, 1909. Of these graduates, 1 had pursued the Course in Agriculture, 1 the Course in Biology, 16 the Course in Civil Engineering, 6 the Course in Chemistry, 7 the Course in Electricity, and 1 the Course in General Science.

REPORT OF RUTGERS SCIENTIFIC SCHOOL

CONDITION AND PROGRESS.

The year opened with a total enrollment of 307 students, the largest in the history of the institution. This necessitated the immediate appointment of an additional Instructor in Mathematics and an additional Assistant in English.

The new Engineering Building, erected at a cost of \$75,000, was completed in April, 1909, and immediately occupied. The building has been furnished and equipped for the uses of the classes in Civil, Electrical and Mechanical Engineering at an outlay of \$20,000, appropriated by the State of New Jersey.

The State of New Jersey has also increased the appropriation for State Scholarships from \$12,000 to \$15,000.

Two additional Fellowships, one in Chemistry and one in Political Science, have been established.

Individual contributions have enabled the Trustees to improve and beautify a portion of the new Neilson Campus, in which work they have expended nearly \$4,500.

The following is a list of the members of the graduating class of 1908, together with the subject of each graduate's thesis:

GRADUATION THESES—CLASS OF 1909.

EDWIN CONRAD ALFORD, Brooklyn, N. Y.

Chemical Studies in Photographic Processes. Blue Printing.

ROBERT GOLDSMITH ALLEN, Red Bank, N. J.

Method of Construction of Dykes and Breakwaters as employed by the United States Government.

THEODORE FRELINGHUYSEN APPLEBY, Old Bridge, N. J.

The Water Supply of New York City.

RAYMOND LESLIE BALDWIN, Caldwell, N. J.

Dairying and Handling of Milk.

MYRON HAMILTON BEEKMAN, Red Bank, N. J.

Complete Test of a Compound Generator.

ALLEN DALE CLOKE, Rahway, N. J.

Dam of the Middlesex Water Company, near Rahway, N. J., on Robinson's Branch, Rahway river.

SAMUEL S. DEMAREST, Bergenfield, N. J.

Bulkhead Walls in New York Harbor.

REPORT OF THE STATE BOARD OF VISITORS

- HERBERT BENNETT FENN, Jersey City, N. J.
The Development of High Tension Transmission with Particular
Reference to American Practice.
- CARL HERBERT GREENEWALD, Moorestown, N. J.
The Method of Finite Differences applied to Special Problems in
Algebra.
- ERNEST FREEMAN HAWLEY, New York City, N. Y.
The Analysis of Iron, Copper and Lead Ores.
- DAVID LOUIS HENDLER, New Brunswick, N. J.
The Evolution of Road Construction.
- JOHN WHILLDIN JANVIER, Bridgeton, N. J.
The Extraction of Nitrogen from the Air. (Translated from Escard's
"Les Industries Electro-chemique.")
- HANS MAX KALETSCH, Perth Amboy, N. J.
The Analysis of Copper Ore.
- BENJAMIN MARSHALL MILLER, Oxford, N. Y.
A Craniometric Study of Some of the Primates.
- FRANK AMBROSE MORRISON, Ridgefield, N. J.
A Re-survey of the Neilson Campus.
- GEORGE WASHINGTON MULHERON, Trenton, N. J.
Plan of the Proposed Sewerage for parts of the Sixth and Eleventh
Wards of Trenton, New Jersey; and the Construction of a part
of the Main and one Lateral.
- JULIUS JOSHUA NEWMARK, Plainfield, N. J.
Improved Methods of Road Preservation and Dust Prevention.
- ARTHUR DOUGLAS PRINGLE, Albany, N. Y.
The Septic Tank and its Relation to Proper Sewage Disposal.
- WILLIAM RAYMOND RANSOM, Rahway, N. J.
The Water Filtration System at Rahway, N. J.
- FREDERICK FOSTER READ, Arlington, N. J.
Design of a Typical Reinforced-Concrete Floor.
- RALPH FRANK RITTER, Rahway, N. J.
Location of Fence and Deed Lines of Neilson Campus.
- CLAYTON SYDNEY SMITH, Newark, N. J.
Syntheses of Salicylic Acid and Derivatives.
- RHEA GORDON SMITH, Plainfield, N. J.
Quantitative Determination of the Constituents of a Soil.
- FORD C. SOMMERS, Cobleskill, N. Y.
Concrete and Concrete Construction.
- ZACHARYA HIRSCH SRAGER, Plainfield, N. J.
The Septic Treatment of Sewage. In Conjunction with Contact Beds.
- RUDOLPH FREDERICK STEINKE, Elizabeth, N. J.
Instruction to Motormen.

REPORT OF RUTGERS SCIENTIFIC SCHOOL

FITZGERALD TISDALL, JR., New York City.

The Design of a Switchboard for the Engineering Building of Rutgers.

WILLIAM LLOYD VANKEUREN, Union Hill, N. J.

Engineering Methods as Applied to Electric Railway Construction.

RUSHWORTH BURTON VANSICKLE, New Brunswick, N. J.

A Review of the Concrete Construction in the Rutgers College Engineering Building.

WILLIAM HENRY WALLACE, Moorestown, N. J.

Mechanical Filters, with Special Reference to the Warren Filter.

RAYMOND BENJAMIN WALLING, Port Monmouth, N. J.

Complete Test of a Compound Generator.

JOHN MICHAEL WENNEIS, Weehawken, N. J.

Sugar.

Appointees to State Scholarships Under Act of 1864.

<i>Counties.</i>	<i>No. Sch.</i>	<i>Appointees.</i>	<i>Class.</i>	<i>Residence.</i>
Atlantic	1	Christian J. Mueller	1913	Atlantic
Bergen	1	Walter G. Winne	1910	Bergen
Burlington	1	Francis E. Weis	1913	Mercer
	2	Harold J. Cadmus	1912	Bergen
	3			
Camden	1	Arthur T. McMichael	1910	Camden
	2	E. Tiel Smith	1912	Camden
Cape May	1	Harry M. Allen	1913	Somerset
Cumberland	1	Frank E. Field	1913	Somerset
Essex	1	William V. Becker	1911	Essex
	2	Roscoe W. DeBaun	1911	Essex
	3	Joseph Burstein	1912	Essex
	4	Frederic Glander	1912	Essex
	5	Donald Ross	1912	Essex
	6	R. Parkhurst Dickerson	1913	Essex
Gloucester	1	Claremont W. Masker	1913	Somerset
Hudson	1	George D. Auchter	1912	Hudson
	2	Carl F. N. Hegstrom	1912	Middlesex
	3	Ethan C. Rogers,	1912	Middlesex
	4	Harold Sillcox	1911	Essex
	5			
	6			
Hunterdon	1	A. Arthur Nelson	1912	Middlesex
Mercer	1	W. Wilson Faussett	1910	Mercer
	2	Scott M. Fell	1911	Mercer
Middlesex	1	Alstyn F. Randolph	1913	Middlesex
	2	William H. McCallum	1913	Middlesex
Monmouth	1	Tunis Denise	1910	Monmouth
	2	William B. Duryee, Jr.	1910	Monmouth

REPORT OF THE STATE BOARD OF VISITORS

<i>Counties.</i>	<i>No. Sch.</i>	<i>Appointees.</i>	<i>Class.</i>	<i>Residence.</i>
Morris	1	Earle B. Van Ness	1912	Morris
	2	Willard C. Durham	1911	Middlesex
Ocean	1	Willis E. Rochford	1911	Mercer
Passaic	1	John R. Sexton	1911	Monmouth
	2			
Salem	1	Melvin M. Hunt	1913	Middlesex
Somerset	1	Nathaniel C. Wyckoff	1910	Somerset
Sussex	1	Leroy C. Wilsey	1912	Essex
Union	1	Edgar C. Cook	1913	Monmouth
	2			
Warren	1	Will G. Atwood	1910	Warren

Appointees to Assembly District Scholarships Under Act of 1890.

<i>Name</i>	<i>County</i>	<i>Class</i>
Charles W. Butler	Bergen	1910
Hyman N. Coplan	Union	1910
William P. Garrison	Cumberland	1910
Harry D. Green	Salem	1910
Morgan Hand, Jr.	Essex	1910
Thomas L. Hanson	Middlesex	1910
Julius F. Jahn, Jr.	Union	1910
Edwin T. Leslie	Essex	1910
Ernest C. Moffett	Middlesex	1910
Sydney P. Noe	Essex	1910
Henry R. Powell	Cumberland	1910
Robert E. Rugen	Somerset	1910
Augustus B. Van Mater	Essex	1910
Charles J. M. Yates	Essex	1910
J. Harold Beekman	Hudson	1911
Alan E. Burns	Middlesex	1911
Wallace T. Eakins	Passaic	1911
Clarence E. Fulton	Hudson	1911
Ferdinand W. Haasis	Essex	1911
Ralph Heidingsfeld	Middlesex	1911
Roy O. Henszey	Camden	1911
George E. Jones	Bergen	1911
Charles M. Keebler, Jr.	Gloucester	1911
Henry Kreh, Jr.	Union	1911
Harold D. Leslie	Essex	1911
William H. MacDonald	Hudson	1911
Andrew T. Manley	Essex	1911
Warren W. Oley	Bergen	1911
Raymond S. Patterson	Middlesex	1911
Frederick M. Smith	Union	1911
Hiram Steelman, Jr.	Cape May	1911
Earle C. Stillwell	Monmouth	1911

REPORT OF RUTGERS SCIENTIFIC SCHOOL

<i>Name</i>	<i>County</i>	<i>Class</i>
Lloyd M. Van Ness	Essex	1911
Walter C. Bauer	Union	1912
John V. Bissett	Hudson	1912
Edward F. Blatz	Hudson	1912
Walter C. Bowen	Cumberland	1912
Fred A. Briegs	Monmouth	1912
Lester E. Cook	Essex	1912
Henry C. Cooper	Atlantic	1912
Thomas S. Cooper	Union	1912
Elbron Fisher	Monmouth	1912
Samuel F. Foster	Ocean	1912
Russell W. Gies	Essex	1912
Jacob W. Groendyke	Monmouth	1912
Paul W. Haasis	Hudson	1912
Aaron M. Hageman	Essex	1912
George E. Hageman	Essex	1912
Albert L. Hagen	Union	1912
Herbert W. Heilmann	Essex	1912
Henry V. Jacobson	Essex	1912
Oran Keller	Middlesex	1912
August Leistner	Hudson	1912
Weston Lennox	Sussex	1912
Lionel F. Liebschutz	Essex	1912
Alson C. Llewellyn	Burlington	1912
John O. Marsh	Hudson	1912
George W. Martin	Morris	1912
William H. Martin	Essex	1912
John D. Morrison	Bergen	1912
Louis F. Merrill	Hunterdon	1912
Herbert R. Peebles	Passaic	1912
Harold C. Pierson	Essex	1912
George R. Robinson	Burlington	1912
Robert Schmidt	Cape May	1912
Elmer B. Shapiro	Somerset	1912
Stephen P. Smith	Cumberland	1912
Harold M. Terrill	Hudson	1912
Arthur B. Titworth	Hudson	1912
Charles A. Titus	Morris	1912
Walter M. Van Wagner	Union	1912
Reinhold vom Lehn	Hudson	1912
Elmer L. Walker	Essex	1912
Paul Walrath	Essex	1912
Richard C. Armstrong	Hudson	1913
Walter Bastedo	Hudson	1913
Whitfield J. Bell	Hudson	1913
Arthur D. Bergen	Morris	1913
James F. Burke	Hudson	1913
Edwin F. Cathcart	Middlesex	1913

REPORT OF THE STATE BOARD OF VISITORS

<i>Name</i>	<i>County</i>	<i>Class</i>
E. Dudley Chase	Essex	1913
Jacob Chobricher	Essex	1913
Frank H. Conover	Hudson	1913
Ralph E. Cooper	Essex	1913
Reginald B. Crowell	Hudson	1913
Louis M. Davis	Somerset	1913
Clifford E. Dennis	Sussex	1913
Cecil G. Fielder	Burlington	1913
F. Walker Flanagan	Morris	1913
Henry W. Foulds	Cape May	1913
Elmer S. Grymes	Passaic	1913
Cuthbert W. Haasis	Bergen	1913
Walter Hornbruch	Essex	1913
Raymond D. Howell	Hudson	1913
Howard F. Huber	Middlesex	1913
Frederick J. Johnson	Ocean	1913
John H. Johnson	Union	1913
Leslie C. Lantz	Warren	1913
Joseph D. Laurent	Union	1913
Jesse B. Leslie	Essex	1913
Oliver F. Mitchell	Hunterdon	1913
Herman A. Newmark	Hudson	1913
Lawrence H. Opdycke	Hudson	1913
Walter E. Orvis	Essex	1913
Walter M. Peacock	Cumberland	1913
Arthur A. Prentiss	Hudson	1913
Irving R. Rossell	Essex	1913
Floyd E. Rue	Hudson	1913
Harold A. Russell	Essex	1913
Morris Schecter	Essex	1913
Cornelius F. Schenck	Passaic	1913
Harold W. Schenck	Passaic	1913
Samuel M. Sharkey	Mercer	1913
Earl R. Silvers	Union	1913
Herbert Simon	Essex	1913
Horace T. Smedley	Gloucester	1913
T. Darmon Smith	Camden	1913
William E. Staat	Hudson	1913
J. Archer Stackhouse	Atlantic	1913
Joseph H. Stone	Camden	1913
Charles C. Stover	Mercer	1913
Frederick N. Vanderipe	Middlesex	1913
Henry L. Van Mater	Essex	1913
Charles K. Van Riper	Passaic	1913
S. Neale Williams	Passaic	1913

All of which is respectfully submitted.

D. DEMAREST DENISE,
President of the Board of Visitors.

Trustees.

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Attorney-General of the State of New Jersey

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DRURY W. COOPER, ESQ.

†WILLIAM I. CHAMBERLAIN, Ph.D.

†DUNCAN D. SUPTON, A.M.

* Died October 18th, 1909.

§ Died March 21st, 1909.

‡ Resigned October 8th, 1909.

† Trustee-elect.

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Curator of the Geological Museum

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Secretary of the Faculty

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Director of the Department of Clay Working and Ceramics

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MYRON TRACY SCUDDER, A.M.

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Head Master of the Preparatory School

RICHARD MORRIS, PH.D.

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Associate Professor of English

JACOB GOODALE LIPMAN, PH.D.

Associate Professor of Agriculture

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RALPH OGDEN SMITH, PH.D.

Associate Professor of Chemistry

KARY CADMUS DAVIS, PH.D.

Associate Professor of Agriculture

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FRED HERBERT DODGE, A.B.

Instructor in Physical Training

Director of the Gymnasium

FRANK RANDALL PRATT, B.Sc.

Instructor in Physics

FREDERICK CHARLES MINKLER, B.S.A.

Instructor in Agriculture

ALBERT RITTENHOUSE JOHNSON, B.Sc.

Instructor in Mathematics and Graphics

Other Instructors, Officers and Assistants.

WALTER TAYLOR MARVIN

A.B. (Columbia), Ph.D. (Bonn)

Acting Professor of Mental Philosophy and Logic

JOHN HOWARD RAVEN

A.B., A.M., D.D. (Rutgers)

Instructor in Hebrew College Ave.

WILLIAM BERTRAM TWISS

A.B. (Dartmouth), A.M. (Harvard)

Instructor in English 172 College Ave.

ERIK SCHJÖTH PALMER

Ph.B. (Yale)

Instructor in Mathematics and Graphics Bayard St.

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A.B. (Beloit), A.M. (Harvard), Ph.D. (Chicago)

Lecturer on the Geology of New Jersey Trenton, N. J.

CLARENCE WARD

A.B., A.M. (Princeton)

Lecturer on the History of Architecture Highland Park

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B.Sc. (Rutgers)

Librarian Highland Park

ROBERT VAN ARSDALE BUTTLER

Assistant in the Library 256 Handy St.

LUTHER HARNED MARTIN

Assistant in the College Office Metuchen, N. J.

WILLIAM SEYMOUR VALIANT

Assistant in the Geological Museum 132 New St.

REPORT OF RUTGERS SCIENTIFIC SCHOOL

JOHN IRVING NELSON

B.Sc. (Rutgers)

Assistant in Biology New Market

EDGAR LEEK DICKERSON

B.Sc. (Rutgers)

Assistant in Entomology

PERCY EDGAR BROWN

B.Sc., A.M. (Rutgers)

Assistant in Bacteriology

JOHN MICHAEL WENNEIS

B.Sc. (Rutgers)

Assistant in Chemistry

Trustees' Report.

RUTGERS COLLEGE,

NEW BRUNSWICK, November 30, 1909.

To His Excellency John Franklin Fort, Governor of the State of New Jersey:

HONORED SIR—In compliance with the act of Congress, approved 2d July, 1862, and the act of the Legislature of New Jersey, approved 4th April, 1864, I beg leave to submit, on behalf of the Trustees of Rutgers College, the forty-fifth annual report of Rutgers Scientific School.

The professors and instructors composing the Faculty of Rutgers College now number forty. In addition there are eight instructors and assistants in the departments of instruction.

The Rev. William I. Chamberlain, Ph.D., Professor of Mental Philosophy and Logic, since January, 1906, having resigned, to the great regret of the Trustees and Faculty, to accept the office of Secretary of the Board of Foreign Missions of the Reformed Church in America, his resignation was accepted to take effect June 30th, 1909. No successor has yet been chosen, but the work of the department is being fully carried on for the present by Preceptor Walter T. Marvin, Ph.D., of Princeton University. Ralph Brewster Parrott, B.Sc., Captain 27th Infantry, U. S. A., Professor of Military Science, approaching the completion of his three years' detail in September, 1909, received, to the great gratification of the College officers, additional detail of one year, postponing the expiration of his term until the furthest possible limit, September, 1910. Alfred A. Titsworth, D.Sc., heretofore Professor of Civil Engineering and Graphics, has been made Professor of Civil Engineering. Richard Morris, Ph.D., Associate Professor, has been promoted to be Professor of Mathematics and Graphics. Frank Randall Pratt, B.Sc., Instructor in Mathematics and Graphics, has been transferred to other de-

REPORT OF RUTGERS SCIENTIFIC SCHOOL

partment and appointed Instructor in Physics. William Bertram Twiss, A.B. (Dartmouth, 1906), A.M. (Harvard, 1907), lately Professor of English in Temple University, 1907-1909, has been appointed Instructor in English. Erik Schjöth Palmer, Ph.B. (Yale, 1906), lately Professor of Mathematics in Rollins College, has been appointed Instructor in Mathematics and Graphics. John Michael Wenneis, B.Sc. (Rutgers, 1909), has been appointed Assistant in Chemistry. The Trustees have adopted as custom of appointment that instructors chosen this year and hereafter be without seat in the Faculty. Heretofore only assistants have not been included in the formal Faculty. The corps of instruction of necessity so increases that it seems desirable that the Faculty, as a voting and ruling body, should consist only of professors and associate professors, and assistant professors if such at any time be appointed. It may prove, wise, also in the near future to organize the several departments of instruction more formally; more definitely constituting heads thereof as may be possible and appropriate.

Clarence Ward, A.M. (Princeton), has served as Lecturer on Architecture, conducting the course in the Fine Arts department during the second term of the year. Special lecturers on the Luther Laflin Kellogg Foundation have been Mr. C. Raymond Beazley, Fellow of Merton College, Oxford; Professor Eugen Kühneman, of the University of Breslau, Visiting Professor at Harvard University; and the Honorable George B. McClellan, Mayor of the city of New York.

The registry of students for the year, 1908-9, in regular college courses, was the largest the college had ever had. The entering class quite far exceeded any preceding. One hundred and fifty Freshmen were admitted, and about one hundred and forty came into actual attendance. Now for the year 1909-10 the entering class is of virtually the same number as last year, and the total registry once more considerably exceeds that of any year preceding. There are 340 students in all courses of Rutgers College leading to degree. The number of students expected in the Short Courses will raise the total to more than 400. The decided increase in the number of candidates for entrance is ex-

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plained in some measure, no doubt, by the development in the College's corps of instruction and in its equipment recently become possible, but as well, and more, perhaps, by the publicity given in appropriate ways to the singularly excellent work done by the College and to the varied advantages it offers to both classical and scientific students. The increase in the number of candidates presenting themselves at the county competitive examinations for State scholarships is especially notable. In 1906 there were 47 such candidates, in 1907 there were 58, in 1908 there were 89, and now in June, 1909, there have been 135. During the year 1908-9 every one of the competitive scholarships for which the Appropriation Bill of the New Jersey Legislature had made provision, one hundred in all, was taken. Now for the year 1909-10 every such scholarship provided for, 125 in all, is taken. The wider territory from which the students have come is also noteworthy. The record of the student body in studies and in general college life, in literary and athletic activities, has been prevailingly good. Intercollegiate relations have been very successfully sustained. Competition within the college itself for the various prizes offered and the quality of such competitive efforts have developed. The spirit of the students in administering student affairs and in co-operating with the Faculty on lines of common interest and in sustaining best standards of college life deserve especial emphasis.

The Legislature at its recent session enacted a detail amendment to the Scholarship Act of 1890, amended 1905, providing that the county competitive examinations be held on the first Friday in June and the Saturday following, instead of on the first Saturday, and that the examinations be held at place or places other than the County Court House if the county and city superintendents so elect. The one item of change has been made necessary by the number of entrance examinations and the time appropriate to each, involving more than a single day's appointments. The second item of change simply offers a proper liberty to the Superintendents of Education, of which, however, none this year have thought it necessary to avail themselves. The Trustees of the College and the Board of Visitors have enacted a broadening of

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curriculum which distinctly enlarges the advantages placed at the disposal of the State for its scholarship students. They have arranged that all courses of study offered in Rutgers College be offered in its Scientific School. This means that candidates for State scholarships in the Scientific School, and all students in that school, have the privilege, for example, of entering upon courses of study in the classical languages as well as in the modern languages and sciences and other studies heretofore open to them. This action conforms with the best idea and custom in the various State universities—that no course of study usual to colleges and universities be excluded from the State institutions, or from students on State scholarships. Its importance to the State, as well as the individual student, is apparent in that the State may wisely desire to educate for its citizenship men entering the so-called learned professions, as well as men entering the so-called scientific industries.

The appropriations of the State for college purposes available during the year Nov. 1st, 1908-Nov. 1st, 1909, have included, in addition to usual amounts for landgrant interest, scholarships, ceramics department, and short courses in agriculture, the sum of \$20,000 for furnishing and equipment of the Engineering Building. The appropriations of the State made at the recent session of the Legislature, and to be available Nov. 1st, 1909-Nov. 1st, 1910, excluding, of course, the above \$20,000 special item, show two other changes. The amount appropriated for scholarships is made \$15,000, instead of \$12,000, and the amount for ceramics department is made \$2,500, instead of \$5,000. The first change, a very gratifying one, is occasioned by the fact that the increased number of students on State Scholarships will for the first time call for more than the \$12,000 heretofore appropriated and probably for the full \$15,000 which the amendment of 1905 provides as a possible amount for this purpose. The second change, greatly regretted by the College, and apparently occasioned by the Legislature's definite policy of retrenchment at many points, will seriously impair the work of the ceramics department. Already the services of an experienced assistant have been dispensed with, and certain activities of great value to

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the State can be for the coming year prosecuted in less adequate degree. It is to be hoped that the executive and legislative officers of the State of New Jersey will not only continue in sympathetic attitude toward the College and its work and its usual claims upon the State, but as well follow out a progressive policy in the College's support. It is extremely desirable, of course, that the appropriation for the ceramics department be restored to its former amount, the \$5,000 provided for by the Amendment of 1907 to the Act of 1902. It is further a fair question whether the State should not and will not, in connection with the Scholarship Act, return from the less liberal amendment of 1905 to the more liberal provisions of the original Act of 1890. The amendment's limiting of scholarship money to \$15,000 seems unfortunate in view of the constant increase in the number of qualified candidates for scholarships; the amount will be, without doubt, henceforth insufficient to provide for those who qualify; and it seems especially unfortunate, and perhaps especially open to revision, in that the original idea of the College and of the Legislature, incorporated in the Act of 1890, was a scholarship available and to be supported for each assembly district in the State, each year, a total of such students thus intended substantially exceeding that suggested in the amendment of 1905. The college will even next year, perhaps, be compelled to confront the question what to do with a surplus of qualified men presenting themselves on the basis of county examinations successfully passed. It may also be added that the amount per scholarship might properly be taken under consideration. It is now \$120. This is substantially less than the amount at present charged upon pay students; and the present charges must soon be increased. Even such increased charge, it will be readily understood, falls far short of the College's expense in educating a student. The Trustees have already resolved that, beginning with the class of 1914, the annual tuition fee shall be \$100, the incidental fees \$30 and the departmental fees \$30, a total of \$160. This will be conceded to be only a fair and necessary charge; and the State may reasonably consider whether it should continue to pay only \$120 for each of the students for whose education its scholarship

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law intends to provide. The further general remark may be made that the State may well consider a broad policy of generous provision for the constant and growing needs of the growing institution, that it may rapidly and vigorously give it a largest possible usefulness, as the majority of the States are forwarding their colleges or universities. It is proper to look to the State, perhaps, for a special appropriation at the coming session of the Legislature for the furnishing and equipment of the proposed Chemistry Building, as the Engineering Building was recently provided for.

The work of instruction for the year presents no special features of importance. The standards required for entrance upon and for continuance in courses of study are, we believe, substantial and reasonable, the wisest possible and a guarantee of the College to all educational authorities. The number of points required for entrance to Bachelor of Science course increases in 1910 from the present twelve and a half to thirteen, and in 1912 to fourteen, while the requirement for entrance to Arts or Letters course has long been and will remain fifteen points. In view of recent public discussion concerning customs of admission at various colleges and universities, it may be proper to add that, in applying these point standards, Rutgers does not admit a candidate with more than three deficiencies and that it requires the removal of any and all entrance deficiencies before the beginning of the second college year. It is also required that every condition incurred in any college year be removed before the beginning of the next college year, failing which the student is dropped from his class. This law of scholarship is perhaps unusually strict, and it has received some adverse criticism. It has, however, plainly justified itself in the relief secured for the current work of each college year, in the excellent and prevailing success of students in meeting the requirement, and in the establishing of a principle of prompt and direct doing of a given work. Another item of perhaps unusual definiteness in the College's customs of instruction is its virtually absolute refusal to receive special students. While it might seem a hardship in some individual case to refuse a course, or group of courses, to a man

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not candidate for a degree, whether fitted for college entrance or not, it seems to the College officers a clear and large advantage to the College and to its body of students that such privilege be denied. Courses of study are now very liberally arranged, while certain suggestions of further provision remain in abeyance awaiting the expedient time or the needed funds. In addition to the enlarged offering in the Scientific School already referred to, the present enlarged opportunity in the department of education or pedagogy deserves emphasis. It is hoped that courses in finance and commerce and in sociology may be possible in the not far distant future. The addition to the academic year for engineering students of one hundred hours of summer work, field surveying or shop work, has gone into effect very satisfactorily; it means about two weeks of instruction of greatest practical value to prospective civil, electrical, or mechanical engineers. The rules for the attainment of post-graduate degrees have been somewhat revised and made apparently fully appropriate. The question of a Summer School for teachers and others who may wish courses of study for six weeks in the summer begins to assert itself. Such summer schools are maintained in many, if not most, of our States, by their colleges or universities. Many teachers and others in our own State, we may naturally suppose, desire such opportunity; the State College, with its buildings, equipment, and instructors, seems the natural and proper place; and the State may consider it wise and worth while, for the sake of its teachers especially, to direct the establishment of such school and to appropriate the funds for its annual support. Another line of instruction in which the State surely would have special interest and for which it might be disposed to provide the funds necessary to establish and maintain, is that of sanitary science and sanitary engineering. The State Board of Health, through a distinguished committee, has conferred with officers of the College as to the matter. A regular college course in such subject would readily co-ordinate with the present course in biology, and short courses in the summer could perhaps be well housed in the Agricultural Building at the College Farm. Suggestion of a forestry course has also been brought before the

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College. For such undertakings, however, substantial financial provision is necessary.

The most important property matter of the year has been the completion of the Engineering Building. Its cost has been \$75,000, of which Mr. Andrew Carnegie gave \$25,000. It is exceedingly well built and admirably arranged for the work of the civil, electrical, and mechanical engineering departments. The furnishing and equipment have cost \$20,000, that amount having been appropriated very generously for the purpose by the State. It was first occupied immediately after the Easter recess; opening exercises were held with address by Mr. L. F. Loree, class of 1877, President of the Delaware and Hudson Company. The next new erection will be a Chemistry Building. It is imperatively urged by the needs of the chemistry department, now very inadequately provided for, and by the growth of the Experiment Station work, in whose building the chemistry is now housed and for whose better accommodation, with the agricultural, biological, horticultural and entomological departments of the college, the chemistry should now be removed. It is thought that a sufficiently large building of good construction can be built for \$50,000. Although no donor of such amount for this purpose has yet appeared, the Trustees have asked competitive designs for the erection and have resolved to proceed with the erection. Assuming that the money be secured for the building itself from private source or sources, perhaps the State would appropriate for furnishing and equipment the \$25,000 surely needed for such purpose. Following upon the Chemistry Building, a new Dormitory seems likely to be soon demanded. Winants Hall has been fully occupied during the year. The number of students in College the coming year will apparently be considerably greater. This dormitory, together with the partial privilege of Hertzog Hall and the Fraternity houses, does not now accommodate them, and moderate annual increase of students may continue. It is now necessary to seek out private boarding houses in the city, similar to those in former years housing the students. Such securing of rooms may quite satisfactorily satisfy the situation for the moment, but the real satisfaction of the students' need and of

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college propriety can only be through the provision of a new dormitory building.

The College property in general has been kept in good repair and has received some substantial and extensive improvements. The most notable of these has been the macadamizing of the roadways of Bleeker Place, Neilson Campus. The central lawn and double row of trees established years ago have made a beautiful boulevard at once possible upon the construction of good roadways. This has been accomplished at considerable expense, provided for from the administration fund of the year. Grading and lawn-making on Neilson Campus have also continued, and are complete in front of the Engineering Building. Tennis courts for the use of the students, and the Faculty as well, have been constructed on the campus along Seminary Place. Between the Engineering Building and the tennis courts it is hoped to erect the Chemistry Building. By generous gift from Dr. John C. Smock, class of 1862, the College has been enabled to plant trees and shrubs on both the Queens Campus and the Neilson Campus, adding much to their appearance now and to their promise for the future. The laying of sidewalks has been continued, that on College Ave. and Somerset Street, Preparatory School frontage, having been accomplished, leaving only two sections of the campus still needing such work, the south side of Hamilton Street and the east side of Bleeker Place. It is greatly to be desired that the properties adjoining Neilson Campus, in the same block, should be secured when possible and made part of the campus. The suggestion is also earnestly made that arches and gateways, memorial perhaps, be established on Hamilton Street at George Street and College Ave., emphasizing the unity as well as boundary of the College property and adding to the beauty of the united campus. It might be that similar erections on Seminary Place at George Street and College Avenue would follow, uniting present Seminary properties and contributing to a desirably united appearance of the properties of the two so closely associated institutions. Some advance has been made in the acquiring of the property on College Avenue, desired for the Preparatory School Home. A generous gift from Mr. J. Howard Ford

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enabled the College to purchase two lots with house and barn which intruded upon an otherwise unoccupied block; the house and barn were at once sold again and removed from the premises, leaving the block now entirely clear.

The Librarian reports the addition of 2,163 volumes to the College Library during the year, of which about half have been by purchase and half by donation. The gifts have come from many donors, including many of the alumni of the college, who have thus shown their enduring and substantial interest in the College and some of whom each year donate valuable books or periodicals. Files of periodicals of great value are being received and made more complete. The purchases have been quite exclusively for departmental equipment, while certain departments, as, for example, that of Romance Languages, still remain quite inadequately equipped. The total number of volumes now in the library is 59,188. The open hours have been slightly increased, now running without intermission from 8 A. M. to 9 P. M. save on Saturday, when the closing is at 4:30 P. M., and on Sunday, when the library is closed all day. Some special work of the year has been the separating of duplicate periodicals and books and their exchange for desired printings, the preparation of a bibliography of all printings in the library related in any way to the State of New Jersey, and the cataloguing of the coin collection. The coin collection is very valuable, and its long delayed placing in appropriate cases and its complete listing and description will be of great permanent importance. The working force has included the Librarian, an assistant, five student helpers and a stenographer. At least one additional full-time assistant should be secured. Other need of the library has been additional shelving for the constantly accumulating books. This need for the present, fortunately, is met, inasmuch as a gift of the class of 1889 at its twentieth anniversary of graduation is, by their consent, applied to this object and cases are now being made to be placed as alcoves in the library transepts.

The Curator of the Geological Museum reports that gifts in large number and of substantial value continue to be received. Especially fine mineral specimens from New Jersey sources, from

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the Cobalt district, Canada, and from Tennessee are among the donations of the year. The collection of maps and reports has also been substantially increased, and especially has the department library been developed by more than 500 volumes in part from the State Geological Survey and in part from College library duplicates. The especial need of the museum, reported by the Curator now for two or three years, the need of more cases and more classifying, will be for the present satisfied—gift of the class of 1874 at its twenty-fifth anniversary of graduation is, by its consent, applied to this object, and the more adequate equipping now proceeds.

The three special departments, Ceramics, Short Courses in Agriculture, and the Experiment Station, are reported in their separate bulletins and only call for briefest mention here. The Ceramics Department has satisfactorily maintained its work of instruction and of scientific investigation and public service as well. A good number of students have taken the course and the services of graduates have been in great demand. Close relations have been maintained with the ceramics industry in the State and clays sent by citizens of the State for determination of value have been tested in the department's laboratory. Tests of paving brick have also been made for various municipalities at the request of their engineers. The Short Courses in Agriculture were attended by seventy students, a larger number than in either preceding year. The course of study was conducted with great efficiency and the work was apparently more satisfactory than ever before. The indications are that the attendance of the coming winter will again show substantial increase. The College Experiment Station has conducted its work along progressive lines, broadening its scope and increasing its service. The investigations as to the artificial propagation of oysters have been advanced: much work has been done in locating the brown-tail moth lately come into the State: and attention to the mosquito problem has been continued so far as funds permitted. The work in soil chemistry and bacteriology has been greatly enlarged, and results already are not only of a high scientific value but also in their practical bearing apparently of the greatest

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significance. New and expert attention is being given to inquiry and experiment in plant physiology. The College Farm, although more largely than ever before given to experiment, showed unusually good results from usual farming operations. The land is improving rapidly, large crops are obtained even under unfavorable conditions, and the assets are increased. The farm becomes more useful to the State each year as a means of demonstrating good methods of practice. Its teachings are widely followed.

The year has been marked by some special occasions worthy of note. Charter Day in the fall, celebrating the one hundred and forty-third birthday of the College, was distinguished by the presence of the Governor of New Jersey, the Hon. J. Franklin Fort, and the Mayor of New Brunswick, the Hon. W. Edwin Florance, both of whom made addresses, constituting, with address by the President of the College, the program of the occasion. Commencement Day in June was distinguished by its celebration of the one hundredth anniversary of the erection of the Queen's Building. Addresses on this occasion were made by the Rev. Henry Evertson Cobb, D.D.; Edward S. Wilde, Esq., and the President of the College. The family of the Rev. Ira Condict, Acting President in 1809, and the family of Abraham Blauvelt, Chairman of the Trustees' Building Committee in 1809, were represented on the program: the Frelinghuysen, Hardembergh, and Livingston families, so closely associated with the college's early days, were represented in the audience, and descendants of John McComb, the architect of Queens Building, were present. The day was also marked by the presence of the Governor at the centennial exercises, at the alumni dinner and at Commencement. Commencement week had further special occasion in exercises celebrating the fortieth anniversary of the founding of the Phi Beta Kappa Society, Alpha of New Jersey, at Rutgers College; the address was given by Professor Edwin A. Grosvenor, of Amherst College, President of the United Chapters of the Phi Beta Kappa.

During the year, at the initiative and through the activity of the Rev. Dr. William Elliot Griffis, Class of 1869, the Trustees,

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Faculty, students and friends of the College united in arranging for a memorial tablet to be presented by Rutgers College to the University of Utrecht in honor of the Rev. John H. Livingston, D.D., a former student at Utrecht, and active promoter of Rutgers (Queen's,) in its early days and President from 1810 to 1825. This very handsome tablet with appropriate inscription will be presented at Utrecht some time during the summer by Dr. Griffis, regularly accredited to represent Rutgers in such ceremony.

This report should not omit mention of the General Catalogue of Officers and Graduates of Rutgers prepared by the Biographer of the Alumni Association, the Rev. Dr. John H. Raven, and just now issued from the press. Its record is remarkably complete from the origin of the College to the present time, and the publication is of rare value to the College and all its friends. The last issue of such work was twenty-five years ago, and the work at this time necessary to accomplish an up-to-date and accurate book was large and arduous. Dr. Raven has given to the task generous time and effort for a year and a half and a most satisfactory volume is the result. High appreciation and grateful acknowledgment are due the compiler for this service so freely and gladly given to his Alma Mater.

In presenting this report I beg to append as part thereof a statement describing the college courses and conveying general information, also schedules of entrance requirements and of curriculum, together with full registry of Rutgers College for the year 1909-10.

All of which is respectfully submitted.

W. H. S. DEMAREST,

President.

Requirements for Admission.

The requirements for admission to the Freshman Class for 1910 are fully stated in the catalogue of 1909-10, which may be had on application. A brief statement in tabular form here follows, for the understanding of which it is necessary to remember that a "point may be defined as a subject of the secondary school curriculum pursued throughout an academic year for four or five periods a week."

FOR THE A.B. COURSE.		FOR THE LITT.B. COURSE.		FOR THE B.SC. COURSES.	
	<i>Points</i>		<i>Points</i>		<i>Points</i>
English	3	English	3	English	3
Mathematics	3	Mathematics	3	Mathematics	4
Latin	4	Latin	4	Foreign Languages	2—4
Greek	3	German or French	3	Science	1—3
History	2	History	2	History	1—3
	15		15		*14

1. The number of points required for admission to the A.B. and Litt.B. Courses is 15, as heretofore. *In 1910 the number of points required* for admission to the B.Sc. Courses will be as follows: 3 in English, 4 in Mathematics, and 6 in other subjects, as set forth below, making a total of 13 points. In 1912 14 points will be required, the additional point to be offered in either Language, Science, or History, as the candidate may prefer.

2. In English the Standard College Entrance requirement, equated as 3 points, is in force for admission to all courses.

3. In Mathematics for the A.B. and Litt.B. Courses the requirement is Algebra through ratio and proportion and progressions and Plane Geometry, equated as 3 points. For the B.Sc. Courses the requirement is Algebra as above, Plane and Solid Geometry, and Plane Trigonometry, equated as 4 points.

4. In Latin a standard four-year course is required for admission to the A.B. and Litt.B. Courses, covering beginner's Latin, Cæsar, Cicero, Virgil, and prose composition, equated as 4 points.

5. In Greek a standard three-year course is required for admission to the A.B. Course, covering beginner's Greek, Xenophon, Homer, and prose composition, equated as 3 points.

* The requirement of 14 points will not be fully in force until 1912. Details are stated in sections 1, 3, 6, 7 and 8.

COURSES OF STUDY

6. In the modern languages other than English, there is no requirement for admission to the A.B. Course. For the Litt.B. Course, three years of German or of French (i. e., "Intermediate" German or French as defined by the Uniform Entrance Examination Board) are required, equated as 3 points. For the B.Sc. Courses, a minimum of two years and a maximum of four years (not more than three in any one language) may be offered, and will be equated accordingly; either German or French will be accepted, but candidates are urged to offer at least one year of German; two or three years of Latin will be allowed for the present as an equivalent for a corresponding amount of a modern language.

7. In Science, for the B.Sc. Courses one year's experimental science is required, either Physics or Chemistry, equated as 1 point; or both may be offered, and equated as 2 points. In 1912 and thereafter a third science, i. e., a year's course in Botany, or in Zoölogy, or in Botany and Zoölogy, may be offered, to make up the total number of points required.

8. In History, for the A.B. and Litt.B. Courses, the requirement is United States History and Civics, and Ancient History, equated as 2 points. For the B.Sc. Courses, United States History and Civics is required, and equated as 1 point; and any two other courses (Ancient History, Mediæval and Modern History, or English History) may be offered to make up the total number of points required.

Courses of Study.

Courses of study are offered leading to the degrees of A.B., Litt.B., and B.Sc. The B.Sc. Courses include a general course in Science, and technical science courses in Civil Engineering, Electrical Engineering, Mechanical Engineering, Chemistry, Agriculture, Ceramics and Biology. Short Courses, not leading to a degree, are offered in Ceramics and in Agriculture. The following details may be noted:

1. Students entering with the requirements of the course leading to the degree of Litt.B. may substitute beginner's Greek for the modern language of the freshman year, and will take regular freshman Greek in the sophomore year. In this case the degree of A.B. will be conferred on completion of the course.

2. The general course in Science is identical in entrance requirements and identical in the freshman year with the technical science courses, but in the sophomore, junior, and senior years provides for electives on the same plan as the courses leading to the degree of A.B. and Litt.B.

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In the simplest form, the courses of study may be tabulated as follows :

Freshman Year

	A.B.	Hours		LITT.B.	Hours
Latin		4	Latin		4
Greek		4	French or German		4
(Greek A.....5)			English		4
English		4	Mathematics		4
Mathematics		4	Physical Training		4=2
Physical Training		4=2			
		<hr/> 18			<hr/> 18
	B.Sc.	Hours		B.Sc. IN—	Hours
Mathematics		5	Mathematics		5
German		4	German		4
English		3	English		3
Chemistry		3	Chemistry		3
Draughting		4=2	Draughting		4=2
Drill		2=1	Drill		2=1
		<hr/> 18			<hr/> 18

Sophomore Year

	A.B.	Hours		LITT.B.	Hours
History		4	History		4
Physics		3	Physics		3
French or German		3	French or German		3
Elective		6	Elective		6
Physical Training		4=2	Physical Training		4=2
		<hr/> 18			<hr/> 18
	B.Sc.	Hours		B.Sc. IN—	Hours
History		4	Physics		3
Physics		3	French or German		3
French or German		3	English		2
English		2	Technical Electives		9
Elective		5	Drill		2=1
Drill		2=1			
		<hr/> 18			<hr/> 18

Junior Year

First Term

	A.B.	Hours		LITT.B.	Hours
Ethics		3	Ethics		3
Logic		3	Logic		3
Bible		2	Bible		2
Elective		9	Elective		9
		<hr/> 17			<hr/> 17

COURSES OF STUDY

	B.Sc.	Hours		B.Sc. IN—	Hours
Ethics		3	History		3
Logic		3	Military Science		2
Military Science		2	Technical Electives		12
Elective		9	Drill		2=1
Drill		2=1			
		<hr/>			<hr/>
		18			18

Second Term

	A.B.	Hours		LITT.B.	Hours
Ethics		3	Ethics		3
Psychology		3	Psychology		3
Astronomy		2	Astronomy		2
Elective		9	Elective		9
		<hr/>			<hr/>
		17			17

	B.Sc.	Hours		B.Sc. IN—	Hours
Ethics		3	History		3
Psychology		3	Military Science		1
Astronomy		2	Technical Electives		13
Elective		9	Drill		2=1
Drill		2=1			
		<hr/>			<hr/>
		18			18

Senior Year

First Term

	A.B.	Hours		LITT.B.	Hours
Political Economy		3	Political Economy		3
International Law		1	International Law		1
History of Art		1	History of Art		1
Elective		12	Elective		12
		<hr/>			<hr/>
		17			17

	B.Sc.	Hours		B.Sc. IN—	Hours
Political Economy		3	Political Economy		3
International Law		1	International Law or Ethics		1
History of Art		1	Technical Electives		13
Elective		12	Drill		2=1
Drill		2=1			
		<hr/>			<hr/>
		18			18

Second Term

	A.B.	Hours		LITT.B.	Hours
Constitutional Law		4	Constitutional Law		4
History of Art		1	History of Art		1
Elective		12	Elective		12
		<hr/>			<hr/>
		17			17

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B.Sc.	<i>Hours</i>	B.Sc. IN—	<i>Hours</i>
Constitutional Law	4	Constitutional Law	4
History of Art	1	Technical Electives	13
Elective	12	Drill	2=1
Drill	2=1		<hr/>
	<hr/> 18		<hr/> 18

Electives.

Before choosing their electives students must consult the professors concerned, and at the beginning of the sophomore year students in the technical science courses must consult also the head of the technical science course which they intend to pursue. There is a standing committee of the Faculty on electives, to which all elective choices are submitted for approval. All choices are subject to the requirements of the schedule, and will be allowed only when the previous preparation of the student qualifies him for the work chosen.

Sophomore Electives

Students in the A.B. and Litt.B. Courses may take, in continuation of their freshman work, any two of the 3-hour sophomore courses in English, Latin, Greek, and Mathematics, but those who have taken beginner's Greek (Greek A) in the freshman year must continue with Greek I in the sophomore year.

Students in the general course in Science will choose, in addition to the required subjects, five hours of work from the following:

1. Pure Mathematics (4 hours) with those pursuing the Engineering Courses, and Draughting (2 hours = 1).
2. Mathematics (3 hours) with those pursuing the Chemical and Ceramics Courses, and Draughting (4 hours = 2).
3. Science (5 hours) with those pursuing the Biological Course.

Junior and Senior Electives

At the beginning of the junior year students in the A.B., Litt.B., and general B.Sc. Courses will choose three electives. At the beginning of the senior year two of these must be con-

COURSES OF STUDY

tinued, but the third may be changed for any other senior elective, subject to the general rules.

The following electives are offered:

	<i>Junior.</i>	<i>Senior.</i>
Latin	3	4
Greek	3	4
English	3	4
French	3	4
German	3	4
Mathematics	3	4
Physics	3	4
Chemistry	3	4
Zoölogy and Botany	3	4
Entomology and Biology	3	4
History	3	4
Geology and Mineralogy	3	4
Philosophy	3	4
Political Science	3	4
History and Science of Education	3	4
Moral Philosophy	—	4
Astronomy	—	4
Italian	3	—
Spanish	—	4
Hebrew (extra)	—	2

Modern Language Options

Certain rules will govern the choice of work in the modern languages.

1. All students in the B.Sc. Courses will take German in the freshman year.
2. Students in the B.Sc. Courses who have offered no German for entrance will take German during the freshman and sophomore years.
3. Students in the B.Sc. Courses who have offered less than two years of French for entrance will take French in the sophomore year, except as provided in rule 2.
4. All other students in the B.Sc. Courses may choose, subject to approval, either German or French in the sophomore year.
5. The junior elective courses (German II and French II) will be open to all students in the Litt.B., and General Science Courses, who have had at least one year of German or of French in college.
6. The senior elective courses (German III and French III) will be open to all students in the Litt.B., and General Science Courses, who have had at least two years of German or of French in college.
7. Students in the A.B. Course may begin German or French in the junior year as an elective, and continue it through the senior year.

REPORT OF RUTGERS SCIENTIFIC SCHOOL

Technical Elective Courses.

The technical science courses begin to diverge at the beginning of the sophomore year, the differentiation increasing each year thereafter. The course, and not the individual subject, is to be chosen, and transfers from one course to another are allowed only by permission of the Faculty, and on condition that all omitted work is made up. The following is an outline of these courses beginning with the sophomore year :

Sophomore Year

CIVIL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
Analytic Geometry and Calculus	4	Calculus	4
Descriptive Geometry	3	Surveying	3
Draughting	4=2	Draughting	4=2
	<hr/> 18		<hr/> 18
<i>Summer</i>		<i>Total Hours</i>	
Field Practice in Surveying		100	

ELECTRICAL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
Analytic Geometry and Calculus	4	Calculus	4
Chemical Laboratory	5=2	Surveying	3
Mechanical Technology	2=1	Draughting	4=2
Mechanical Drawing	4=2		
	<hr/> 18		<hr/> 18
<i>Summer</i>		<i>Total Hours</i>	
Field Practice in Surveying		100	

MECHANICAL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
Analytic Geometry and Calculus	4	Calculus	4
Chemical Laboratory	5=2	Elementary Kinematics	4=2
Mechanical Technology	2=1	Mechanism	1
Mechanical Drawing	4=2	Mechanical Technology	4=2
	<hr/> 18		<hr/> 18
<i>Summer</i>		<i>Total Hours</i>	
Mechanical Technology and Shop Work		100	

TECHNICAL ELECTIVE COURSES

Junior Year

CIVIL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Calculus and Mechanics	5	Mechanics	4
Elements of Machinery	2	Stresses in Roofs and Bridges	3
Elements of Electrical Engineer- ing	3	Railway Engineering,	3
Draughting	4=2	Civil Engineering Laboratory	3=1
	<hr/>	Draughting	4=2
	18		<hr/>
			18

<i>Summer</i>	<i>Total Hours</i>
Field Practice in Railroad Surveying	100

ELECTRICAL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Calculus and Mechanics	5	Mechanics	4
Telephones and Telegraphs	2	Dynamo Electrical Machinery	5
Elements of Electrical Engineer- ing	3	Elementary Thermodynamics	1
Physical Laboratory	5=2	Engineering Laboratory	2=1
	<hr/>	Electrical Laboratory	5=2
	18		<hr/>
			18

<i>Summer</i>	<i>Total Hours</i>
Engineering and Dynamo Laboratories	100

MECHANICAL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Calculus and Mechanics	5	Mechanics	4
Elements of Electrical Engineer- ing	3	Dynamo Electrical Machinery	5
Graphic Statics of Mechanism	4=2	Graphic Statics of Structures	4=2
Physical Laboratory	5=2	Elementary Thermodynamics	1
	<hr/>	Engineering Laboratory	2=1
	18		<hr/>
			18

<i>Summer</i>	<i>Total Hours</i>
Engineering and Dynamo Laboratories	100

Senior Year

CIVIL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Applied Geology	3	Hydraulic Engineering	2
Mechanics and Strength of Ma- terials	4	Geodetic Surveying	3
Highway Engineering and Sani- tary Engineering	3	Materials and Methods of Construction	3
Civil Engineering Laboratory	3=1	Practical Astronomy	3
Draughting	4=2	Draughting	4=2
	<hr/>		<hr/>
	18		18

REPORT OF RUTGERS SCIENTIFIC SCHOOL

ELECTRICAL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Alternating Currents	4	Alternating Currents	5
Mechanics and Strength of Materials	4	Electrical Power Transmission	2
Thermodynamics	2	Electrical Railways	3
Dynamo Laboratory	5=2	Dynamo Laboratory	5=2
Electrical Design	2=1	Electrical Design	2=1
	<hr/> 18		<hr/> 18

MECHANICAL ENGINEERING

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Mechanics and Strength of Materials	4	Hydraulic Engineering	2
Thermodynamics	2	Thermodynamics	3
Kinematics	6=3	Mechanics of Machinery	2
Machine Design	6=3	Graphic Dynamics	4=2
Engineering Laboratory	2=1	Machine Design	6=3
	<hr/> 18	Engineering Laboratory	2=1
			<hr/> 18

Sophomore Year

CHEMISTRY

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
General Chemistry	2	Qualitative Analysis	2
Analytic Geometry	3	Calculus	3
Chemical Laboratory	10=4	Chemical Laboratory	10=4
	<hr/> 18		<hr/> 18

CERAMICS

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
General Chemistry	2	Qualitative Analysis	2
Analytic Geometry	3	Calculus	3
Chemical Laboratory	10=4	Chemical Laboratory	10=4
	<hr/> 18		<hr/> 18

<i>Summer</i>	<i>Total Hours</i>
Field Practice in Surveying	100

• AGRICULTURE

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
General Chemistry	2	Qualitative Analysis	2
Soil Physics	3	Geology	3
Chemical Laboratory	5=2	Chemical Laboratory	5=2
Soil Physics, Laboratory	5=2	Farm Mechanics, Laboratory	5=2
	<hr/> 18		<hr/> 18

TECHNICAL ELECTIVE COURSES

Summer Total Hours
Field Practice in Surveying 100

BIOLOGY

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	9	Common to All Courses	9
General Chemistry	2	Qualitative Analysis	2
Physiology	2	Geology	3
Zoölogy	3	Astronomy	2
Chemical Laboratory	5=2	Chemical Laboratory	5=2
	<hr/> 18		<hr/> 18

Junior Year

CHEMISTRY

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Quantitative Chemistry	3	Quantitative Chemistry	2
Industrial Chemistry	3	Industrial Chemistry	3
Chemical Laboratory	15=6	Crystallography	3=1
		Mineralogy	5=2
		Chemical Laboratory	12=5
	<hr/> 18		<hr/> 18

CERAMICS

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Clays, Properties and Uses	2	Clays, Properties and Uses	3
Quantitative Chemistry	2	Ceramic Calculations	4
Elements of Machinery	2	Crystallography	3=1
Elements of Electrical Engineer- ing	3	Mineralogy	5=2
Chemical Laboratory	8=3	Chemical Laboratory	8=3
	<hr/> 18		<hr/> 18

AGRICULTURE

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Agricultural Chemistry	3	Horticulture	4
Invertebrate Zoölogy	2	Plant Anatomy	2
Bacteriology	2	Entomology	2
Agricultural Chemistry, Labora- tory	5=2	Biological Laboratories	13=5
Biological Laboratories	8=3		
	<hr/> 18		<hr/> 18

BIOLOGY

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	6	Common to All Courses	5
Hygiene	3	Nerve Physiology	2
Invertebrate Zoölogy	2	Plant Anatomy	2
Bacteriology	2	Astronomy	2
Chemical Laboratory	5=2	Entomology	2
Biological Laboratories	8=3	Mineralogy	5=2
	<hr/> 18	Biological Laboratories	8=3
			<hr/> 18

REPORT OF RUTGERS SCIENTIFIC SCHOOL

Senior Year

CHEMISTRY

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Physical Chemistry	2	Conference	1
Organic Chemistry	3	Organic Chemistry	3
Geology	3	Physical Chemistry	2
Chemical Laboratory	13=5	Advanced Inorganic Chemis- try	1
		Chemical Laboratory	12=5
		Inorganic Chemistry Labora- tory	3=1
	<hr/> 18		<hr/> 18

CERAMICS

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Geology	3	Glazes, Drying, Firing	6
Winning and Preparation of Clays; Manufacture of Bodies	6	Geology	3
Ceramics, Laboratory	10=4	Ceramics, Laboratory	10=4
	<hr/> 18		<hr/> 18

AGRICULTURE

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Agronomy	4	Animal Husbandry	4
Veterinary Science	2	Vegetable Physiology and Pathology	2
Vertebrate Zoölogy	2	Entomology	2
Agronomy, Laboratory	5=2	Dairy, Laboratory	5=2
Biological Laboratories	8=3	Biological Laboratories	8=3
	<hr/> 18		<hr/> 18

BIOLOGY

<i>First Term</i>	<i>Hours</i>	<i>Second Term</i>	<i>Hours</i>
Common to All Courses	5	Common to All Courses	5
Vertebrate Zoölogy	3	Physiology of Nutrition	4
Veterinary Science	2	Vegetable Physiology and Pathology	2
Organic Chemistry	3	Organic Chemistry	3
Organic Chemistry, Laboratory	5=2	Biological Laboratories	8=2
Biological Laboratories	8=3	Biotechnology Laboratory	3=1
	<hr/> 18		<hr/> 18

STATE SCHOLARSHIPS IN SCIENTIFIC SCHOOL

State Scholarships in the Scientific School.

For residents of the State of New Jersey scholarships are provided as follows :

1. State Scholarships, Act of March 31, 1890, as amended by Act of March 31, 1905.

These scholarships cover *all of the College fees*, including the charges for tuition and public-room service and special fees, *altogether \$115 to \$160, according to circumstances.*

Appointment to these scholarships is determined as follows :

A competitive examination, under the direction of the City Superintendents and the County Superintendent of Schools in each county, is held at the county court-house in each county of the State on the first Friday in June of each year, and the Saturday following (in 1910 on June 3-4).

The whole number of such scholarships to be awarded each year is equal to the whole number of Assembly districts in the State, as follows :

Atlantic	1	Gloucester	1	Ocean	1
Bergen	2	Hudson	12	Passaic	5
Burlington	2	Hunterdon	1	Salem	1
Camden	3	Mercer	3	Somerset	1
Cape May	1	Middlesex	3	Sussex	1
Cumberland	2	Monmouth	3	Union	3
Essex	11	Morris	2	Warren	1

Any candidate who passes the examination is entitled to an appointment, provided there is a vacancy in any district.

Students who have passed the State Competitive Examinations can enter the Scientific School of Rutgers College without further examination.

2. State Scholarships, Act of 1864.

These Scholarships cover the charge of \$80 a year for tuition.

The Scholarships under this Act are awarded on the recommendation of the Superintendent of Schools in each county, to

REPORT OF RUTGERS SCIENTIFIC SCHOOL

students who have passed the required examinations. There are, in all, forty such scholarships.

3. Scholarships-at-large, provided by the Trustees of Rutgers College.

These Scholarships, ten in number, cover the charge of \$80 a year for tuition.

For catalogue or other information address Mr. Irving S. Upson, A.M., Registrar.

County Superintendents.

The following are the names and addresses of the county Superintendents of Public Instruction:

Atlantic, HENRY M. CRESSMAN, Egg Harbor City.

Bergen, B. C. WOOSTER, Hackensack.

Burlington, HERMAN A. STEES, Beverly.

Camden, CHARLES S. ALBERTSON, Magnolia.

Cape May, AARON W. HAND, Cape May City.

Cumberland, JOHN N. GLASPELL, Bridgeton.

Essex, A. B. MEREDITH, Nutley.

Gloucester, DANIEL T. STEELMAN, Glassboro.

Hudson, M. H. KINSLEY, Hoboken.

Hunterdon, JASON S. HOFFMAN, Flemington.

Mercer, JOSEPH M. ARNOLD, Princeton.

Middlesex, H. BREWSTER WILLIS, New Brunswick.

Monmouth, JOHN ENRIGHT, Freehold.

Morris, J. HOWARD HULSART, Dover.

Ocean, CHARLES A. MORRIS, Toms River.

Passaic, EDWARD W. GARRISON, Paterson.

Salem, J. A. WENTZELL, Elmer.

Somerset, H. C. KREBS, Plainfield.

Sussex, RALPH DECKER, Sussex.

Union, J. J. SAVITZ, Westfield.

Warren, FRANKLIN T. ATWOOD, Hackettstown.

REGISTER OF STUDENTS

Register of Students.

FELLOW

	<i>Residence</i>	<i>Rooms</i>
Alford, Edwin Conrad, B.Sc. Rutgers College, 1909 Vander Poel Fellow in Chemistry	<i>Brooklyn, N. Y.</i>	17 Mine St.

GRADUATE STUDENTS

Only the major subject is named

	<i>Residence</i>	<i>Rooms</i>
Bascom, Frederick Locke, Litt.B. Rutgers College, 1909 <i>Chemistry</i>	<i>Middlebush, N. J.</i>	73 Winants Hall
Brown, Percy Edgar, B.Sc. Rutgers College, 1906; A.M., 1909 <i>Agricultural Bacteriology</i>	<i>Woodbridge, N. J.</i>	116 Hamilton St.
Dickerson, Edgar Leek, B.Sc. Rutgers College, 1902 <i>Entomology</i>	<i>Newark, N. J.</i>	Newark, N. J.
Hart, George Wilmot, Litt.B. Rutgers College, 1909 <i>Chemistry</i>	<i>Asbury Park</i>	84 Bayard St.

SENIOR CLASS

CLASS OF 1910

A indicates A.B. Course; L—Litt.B. Course; S—B.Sc. Course

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Atwood, Will Gillespie	S	<i>Belvidere</i>	Bleecker Pl.
Bowler, Frank Iverson	S	<i>Woodbridge</i>	Woodbridge
Butler, Charles William, 2nd	S	<i>East Hackensack</i>	114 College Ave.
Case, Willard Trotter	S	<i>Ballston Spa, N. Y.</i>	78 College Av.
Coleman, David Fleming	S	<i>Tottenville, N. Y.</i>	Bleecker Pl.
Conger, Alexander Millspaugh	A	<i>Albany, N. Y.</i>	12 Hertzog Hall
Coplan, Hyman Nathen	S	<i>Elizabeth</i>	Elizabeth
Denise, Tunis	S	<i>Freehold</i>	Bleecker Pl.
DuBois, Marvin Ketcham	L	<i>Freehold</i>	134 Winants Hall
Durfee, Jesse Fitzgerald	A	<i>Central Bridge, N. Y.</i>	14 Hertzog
Duryee, William Budington, Jr.	S	<i>Freehold</i>	134 Winants Hall
Faussett, William Wilson	S	<i>Trenton</i>	77 Hamilton St.
Franklin, Kenneth Sherman	S	<i>New Brunswick</i>	17 Mine St.
Garrison, William Powell	S	<i>Roadstown</i>	78 College Ave.

REPORT OF RUTGERS SCIENTIFIC SCHOOL

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Green, Clarence Whitaker	S	Brooklyn, N. Y.	52 College Ave.
Green, George M	A	Flushing, N. Y.	Bleecker Pl.
Green, Harry Dunn,	S	Salem	95 College Ave.
Hand, Morgan, Jr.	S	Ocean City	18 College Ave.
Hansen, Andrew	A	Queens, N. Y.	12 Hertzog Hall
Hanson, Thomas Loughlin	S	Perth Amboy	17 Mine St.
Hommann, Charles Chauncey, Jr.	A	Perth Amboy	18 College Ave.
Jahn, Julius Ferdinand, Jr.	S	Linden	61 Winants Hall
Ketcham, Clarence Searle	L	Newburgh, N. Y.	52 College Ave.
Leslie, Edwin Thomas	S	Newark	Bleecker Pl.
McMichael, Arthur Thomas	S	Laurel Springs	58 Winants Hall
Mason, Frank Edgar	A	Newark	78 College Ave.
Moffett, Ernest Cutter	S	Fords	Fords
Murphy, Arthur Boyle	S	Albany, N. Y.	95 College Ave.
Nafey, Herbert William	S	Highland Park,	Highland Park
Noe, Sydney Philip	S	Woodbridge	Woodbridge
Perlee, Ralph Nevius	S	New Brunswick	179 New St.
Pitcher, Henry Payson	L	Hudson, N. Y.	114 College Ave.
Powell, Henry Rice	S	Bridgeton	95 College Ave.
Powers, Louis	S	Elizabeth	Elizabeth
Rugen, Robert Ernest	S	Bound Brook	137 Winants Hall
Russum, William Abel Rogniat	L	Elizabeth	52 College Ave.
Stryker, Russell Foote	A	Bound Brook	127 Winants Hall
Thomson, James Claude	S	Middlebush	114 College Ave.
Tozier, Edwin Stone	S	Warsaw, N. Y.	102 Winants
Van Mater, Augustus Blanchard	S	Highland Park	Highland Park
Van Winkle, Frank Hasbrouck	S	Jersey City	18 College Ave.
Winne, Walter Griffen	L	N. Hackensack	114 College Ave.
Wyckoff, Nathaniel Cain	S	Millstone	Ballantine Gym.
Yates, Charles Manley	S	New Brunswick	235 Hamilton St.

JUNIOR CLASS

CLASS OF 1911

A indicates A.B. Course; L—Litt.B. Course; S—B.Sc. Course

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Baldwin, George Howard	S	Brooklyn, N. Y.	52 College Ave.
Bascom, Perry Hadwick	L	Bound Brook	73 Winants Hall
Becker, William Voigt	A	Newark	99 Winants Hall
Beekman, Jesse Harold	S	Sayreville	17 Mine St.
Best, Harold Silas	S	New Brunswick	243 George St.
Brewster, Herman Clark	S	Cornwall, N. Y.	77 Winants Hall
Burns, Alan Elwin	S	New Brunswick	26 Winants Hall
Carl, Malcolm Langstroth	S	Blomfield	78 College Ave.
Casale, Vincent James	A	Newark	78 Winants Hall
Chedister, Edwin Stanley	A	Newark	17 Mine St.
DeBaun, Roscoe William	S	Caldwell	95 College Ave.

REGISTER OF STUDENTS

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Dewald, Ernest	A	<i>New Brunswick</i>	22 Morris St.
Dixon, Harold Wilson	S	<i>Southampton, N. Y.</i>	26 Winants
Durham, Willard Conklin	S	<i>New Brunswick,</i>	264 Seaman St.
Eakins, Wallace Todd	S	<i>Paterson</i>	73 Winants Hall
Elmendorf, DuMont Frelinghuysen	A	<i>New Brunswick</i>	69 Albany St.
Fell, Scott Miller	S	<i>Trenton</i>	78 College Ave.
Ferguson, John DeLancey	A	<i>Plainfield</i>	105 Winants Hall
Forsyth, Joseph Robert	S	<i>Little Falls, N. Y.</i>	14 Hertzog
Frost, Henry Delevan	A	<i>Dairyland, N. Y.</i>	32 Hertzog
Fulton, Clarence Edward	S	<i>New Brunswick</i>	214 Handy St.
Haasis, Ferdinand Wead	S	<i>Rahway</i>	Rahway
Hawver, William Chauncey	L	<i>Cleverack, N. Y.</i>	78 College Ave.
Heidingsfeld, Ralph	S	<i>New Brunswick</i>	40 Albany St.
Henszey, Roy Ormonde	S	<i>Ashland</i>	140 Winants Hall
Herber John LeRoy	S	<i>Delmar, N. Y.</i>	Hamilton St.
Hunt, Augustus	S	<i>Philadelphia, Pa.</i>	Bleecker Pl.
Jacquart, Charles Edward	S	<i>South River</i>	18 College Ave.
Jones, George Edward	S	<i>Hackensack</i>	114 College Ave.
Keebler, Charles Morris	S	<i>Glassboro</i>	63 Winants Hall
Kreh, Henry, Jr.	S	<i>Elizabeth</i>	12 Winants Hall
Leslie, Harold David	S	<i>Newark</i>	23 Winants Hall
MacDonald, William Henry	L	<i>Dayton</i>	Dayton
McDougall, Walter Burroughs	S	<i>Westfield</i>	110 Winants Hall
Manley, Andrew Ten Eyck	S	<i>New Brunswick</i>	132 Hamilton
Marcley, Allen Francis	A	<i>Schenectady, N. Y.</i>	Hertzog Hall
Neander, John	A	<i>Albany, N. Y.</i>	29 Hertzog Hall
Nelson, Samuel Maximilian	S	<i>Highland Park</i>	Highland Park
Oley, Warren Wilcox	S	<i>Wortendyke</i>	140 Winants Hall
Palmer, Dorrance Wilson	S	<i>Brooklyn, N. Y.</i>	117 Winants
Patterson, Raymond Sears	S	<i>Metuchen</i>	Bleecker Pl.
Pockman, Theodore Niver	A	<i>New Brunswick</i>	219 Townsend St.
Reid, Louis Raymond	L	<i>Warsaw, N. Y.</i>	78 College Ave.
Rochford, Willis Earl	S	<i>Trenton</i>	77 Hamilton St.
Safford, George	S	<i>Brooklyn, N. Y.</i>	52 College Ave.
Sangster, George Munson, Jr.	S	<i>Glen Ridge</i>	52 College Ave.
Schenck, Ferdinand Schureman, Jr.	A	<i>New Brunswick</i>	Seminary Pl.
Schenck, Willard Earle	S	<i>New Brunswick</i>	28 Paterson St.
Sexton, John Roderick	S	<i>Long Branch</i>	422 George St.
Sillcox, Harold	S	<i>Newark</i>	78 College Ave.
Smith, Frederick Martin	S	<i>Plainfield</i>	105 Winants Hall
Smith, Howard Anthony	S	<i>New York, N. Y.</i>	29 Winants
Steelman, Hiram, Jr.	S	<i>Ocean City</i>	Ballantine Gym.
Stelle, Clarkson Provost	S	<i>Milltown</i>	Milltown
Stillwell, Earle Cook	S	<i>Freehold</i>	136 Winans Hall
Van Dyck, Louis Bevier	A	<i>Newark, N. Y.</i>	77 Hamilton St.
Van Dyck, Leonard Kip	A	<i>Philmont, N. Y.</i>	Bleecker Pl.
Van Ness, Lloyd Mervin	S	<i>Caldwell</i>	95 College Ave.
Voorhees, John Haring	S	<i>New Brunswick</i>	College Farm
Voorhees, Tracy Stebbins	A	<i>New Brunswick</i>	Bishop Place

REPORT OF RUTGERS SCIENTIFIC SCHOOL

SOPHOMORE CLASS

CLASS OF 1912

A indicates A.B. Course; L—Litt.B. Course; S—B.Sc. Course

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Alverson, James K	S	Newark	17 Mine St.
Amos, Harold Curtice	A	Utica, N. Y.	77 Hamilton St.
Arthur, John	S	Newark	Newark
Auchter, George David	S	Jersey City	114 College Ave.
Bauer, Walter Charles	S	Linden	34 Winants Hall
Bergamini, Herbert Muhlenberg	S	Brooklyn, N. Y.	52 College Ave.
Bissett, John Vail	S	New Brunswick	420 George St.
Blatz, Edward Francis	S	Elizabeth	Elizabeth
Bloom, Walter Sax	A	Catskill, N. Y.	45 Hertzog Hall
Bowen, Walter Cox	S	Shiloh	78 College Ave.
Briegs, Fred Arthur	S	Perth Amboy	17 Mine St.
Briggs, Leonard Stott	S	Firthcliffe, N. Y.	109 Winants
Burstein, Joseph	S	Newark	Newark
Cadmus, Harold Jasper	S	Ridgewood	101 Hamilton St.
Campbell, Alan Ditchfield, Jr.	A	New Brunswick	146 Livingston Av.
Cleaver, Robert Stephen	S	Schuylerville, N. Y.	Alumni House
Cook, Lester Emery	S	Newark	55 Winants Hall
Cook, William Benjamin	L	Millwood, N. Y.	Hamilton St.
Cooper, Henry Clifton	S	Palmyra	95 College Ave.
Cooper, Thomas Shipman	S	Cranford	95 College Ave.
Feldman, Jacob Joseph	S	Bound Brook	Bound Brook
Fisher, Elbron	S	South River	78 College Ave.
Fitting, Francis Clyde	S	Philadelphia, Pa.	135 Winants
Foster, Samuel Forman	S	Bayhead	Bleecker Pl.
Fountain, Fred Montgomery	S	Hackensack	114 College Ave.
Gies, Russell Woodworth	S	Newark	Bleecker Pl.
Gilbert, Seymour Parker, Jr.	A	Bloomfield,	24 Hertzog Hall
Gladding, Augustus Lemuel	S	Lincoln, Cal.	78 College Ave.
Glander, Frederic	S	Bloomfield	43 Winants Hall
Groendyke, Jacob Walter	S	Monmouth Junc.	Monmouth Junc.
Haasis, Paul Wead	S	Rahway	Rahway
Hageman, Aaron Martin	S	Bound Brook	Bound Brook
Hagemann, George Edward	S	Newark	Newark
Hagen, Albert Lewis	S	Cranford	62 Winants Hall
Halsted, Edwin Howe	S	New Brunswick	121 Livingston Av.
Havens, Valentine Britton	A	Brooklyn, N. Y.	Bleecker Pl.
Hegstrom, Carl Frederick Nicholas	S	Perth Amboy	Perth Amboy
Heilmann, Herbert William	S	Newark	17 Winants Hall
Herrman, William Gettier	A	Plainfield	77 Hamilton St.
Hotaling, Henry Kilmer	A	Delmar, N. Y.	45 Hertzog Hall
Jacobson, Henry Victor	S	Newark	Newark

REGISTER OF STUDENTS

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Keller, Oran	S	<i>New Brunswick</i>	206 George St.
Kieffer, Ralph Jacob	S	<i>Katrine, N. Y.</i>	66 Winants Hall
Leistner, August	S	<i>Elizabeth</i>	Elizabeth
Lennox, Weston	S	<i>Hamburg</i>	76 Winants Hall
Liebschutz, Lionel F	S	<i>Newark</i>	78 Winants Hall
Llewellyn, Alson Carlton	S	<i>Moorestown</i>	34 Winants Hall
McGovern, John Francis, Jr.	S	<i>New Brunswick</i>	131 French St.
Mailler, John Preston	S	<i>Cornwall, N. Y.</i>	66 Winants Hall
Mailler, James Walter	S	<i>Cornwall, N. Y.</i>	66 Winants Hall
Marsh, John Osborn	S	<i>Rahway</i>	Rahway
Martin, George Willard	S	<i>Metuchen</i>	Metuchen
Martin, William Herbert	S	<i>Bloomfield</i>	43 Winants Hall
Merrill, Louis Fowler	S	<i>Sergeantsville</i>	110 Winants Hall
Morrison, John Dittgen	S	<i>Ridgefield Park</i>	77 Hamilton St.
Moseman, Milo Claude	S	<i>Big Hollow, N. Y.</i>	39 Hertzog
Nelson, Alfred Arthur	S	<i>South Amboy</i>	108 Winants Hall
Nevius, John Richard	S	<i>East Millstone</i>	East Millstone
Peebles, Herbert Ramsey	S	<i>Paterson</i>	101 Hamilton St.
Pierson, Harold Clarkson	S	<i>Newark</i>	124 Winants Hall
Press, Jacob	A	<i>Harrison</i>	Harrison
Relyea, George Lorenzo	S	<i>New Paltz, N. Y.</i>	133 Somerset
Robinson, George Raymond	S	<i>Moorestown</i>	34 Winants Hall
Rogers, Ethan Clark	S	<i>New Market</i>	New Market
Ross, Donald	S	<i>Newark</i>	18 College Ave.
Ross, Vivian Clinton	A	<i>New Brunswick</i>	300 George St.
Schmidt, Robert	S	<i>Woodbine</i>	133 Somerset St.
Schofield, Harold Ellison	S	<i>Philadelphia, Pa.</i>	17 Mine St.
Scott, Edward Collier	S	<i>Oswego, N. Y.</i>	114 College Ave.
Scudder, Ernest Weld	A	<i>Thomas, Okla.</i>	77 Hamilton St.
Shapiro, Elmer Bernard	A	<i>Somerville</i>	Somerville
Smith, Edward Tiel	S	<i>Coopersville, Mich.</i>	41 Hertzog
Sichterman, Nicholas Sikkie	A	<i>Magnolia</i>	58 Winants Hall
Smith, Richard Alexander	S	<i>New Brunswick,</i>	69 Paterson St.
Smith, Stephen Parsons	S	<i>Leesburg</i>	23 Schuyler St.
Smock, William Emmons	S	<i>Newark</i>	55 Winants Hall
Stier, Wm. Rudolf Fuerchtegott	A	<i>Sayreville</i>	47 Hertzog Hall
Terrill, Harold Morlock	S	<i>Rahway</i>	Rahway
Titworth, Arthur Bentley	S	<i>Plainfield</i>	114 College Ave.
Titus, Charles Augustin	S	<i>New Brunswick</i>	178 Townsend
Urbano, Francesco Giglio	A	<i>New York, N. Y.</i>	31 Winants
Van Derwerker, Earle Edward	S	<i>Bacon Hill, N. Y.</i>	2 Winants
Van Ness, Earle Benjamin	S	<i>Pine Brook</i>	95 College Ave.
Van Wagner, Walter Martin	S	<i>Roselle</i>	Roselle
vom Lehn, Reinhold	S	<i>Elizabeth</i>	Elizabeth
Walker, Elmer Leigh	S	<i>Newark</i>	17 Winants Hall
Walrath, Paul	S	<i>Newark</i>	Bleecker Pl.
Wehrly, Charles Swackhamer	S	<i>Somesville</i>	Somerville

REPORT OF RUTGERS SCIENTIFIC SCHOOL

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
White, Dexter	S	New York, N. Y.	52 College Ave.
Wilsey, Leroy Colver	L	Newark	70 Winants Hall
Woelfle, Frederick	S	Brooklyn, N. Y.	90 Winants Hall
Young, Edmund Wilkins	S	Astoria, N. Y.	102 Winants Hall

FRESHMAN CLASS

CLASS OF 1913

A indicates A.B. Course; L—Litt.B. Course; S—B.Sc. Course

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Allen, Harry Milton	S	Basking Ridge	1 Hardenburgh St.
Appleby, Stewart Hoffman	S	Asbury Park	113 Winants Hall
Armstrong, Richard Clinton	S	New Brunswick	184 Livingston Av.
Ball, William Carol, Jr.	S	Rutherford	7 Winants Hall
Barr, Thomas Turner, Jr.	S	Metuchen	52 College Ave.
Bastedo, Walter	A	Dayton	Dayton
Basten, Edgar Van Dyck	S	Kingston, N. Y.	114 College Ave.
Beckwith, Charles Stewart	S	Olean, N. Y.	96 Paterson St.
Bell, Whitfield Jenks	S	Hoboken	94 Easton Ave.
Bergen, Arthur DeLong	S	Bound Brook	Bound Brook
Bouton, Robert Ogden	S	Elizabeth	95 College Ave.
Bowers, Clark Christopher	S	Washington	142 Winants Hall
Buechner, Casper	S	Woodhaven, N. Y.	30 Winants
Burke, James Francis	S	New Brunswick	99 Throop Ave.
Cathcart, Edwin Furman	S	South River	95 College Ave.
Chamberlin, Laban Hammill	A	New Brunswick	141 Paterson St.
Chase, Edward Dudley	S	Rahway	Rahway
Chobricher, Jacob	A	Newark	Newark
Coffey, John Edward Develin	S	Hackensack	114 College Ave.
Conover, Frank Hayward	S	Perth Amboy	113 Winants Hall
Cook, Edgar Chesebro	S	Atlantic Highlands	Bleecker Pl.
Cooper, Ralph Emerson	S	Newark	Newark
Cozzens, Henry Anthony, Jr.	S	Newark	87 Winants Hall
Crowell, Reginald Bulkley	S	Metuchen	Metuchen
Davis, Louis Morris	S	Bound Brook	Bound Brook
de la Torre, Austin Lino	S	Guadalajara, Mex.	98 Easton Ave.
Dennis, Clifford Ezekiel	S	Hamburg	95 Bayard St.
Deyo, Elting Forsythe	S	Fairfield, Conn.	130 Winants
Dickerson, Rawson Parkhurst	S	Newark	23 Winants Hall
Drake, Willet Harold	S	Trenton	81 Winants Hall
Ellis, Arthur Wesley	A	Kingston, N. Y.	52 College Ave.
Enk, John Clyde	A	Somerville	Somerville
Field, Frank Edwin	S	Somerville	Somerville
Fielder, Cecil Gray	S	Lakewood	31 Hertzog Hall
Flanagan, Francis Walker	S	Highland Park	Highland Park

REGISTER OF STUDENTS

Course Residence

Rooms

Folsom, Joseph Kirk	S	Newark	118	Winants Hall
Foulds, Henry William	S	Ocean City	29	Hertzog Hall
Fretz, Leo Hasleden	S	Cedar Grove	126	College Ave.
Green, Harry Young	S	Baptisttown	83	Easton Ave.
Grymes, Elmer Smith	S	New Brunswick	210	Handy St.
Haasis, Cuthbert Wead	S	Rahway		Rahway
Hambrock, Charles	S	Newark	79	Paterson St.
Hambrock, Louis, Jr.	S	Newark	79	Paterson St.
Hankin, Montague	S	Millington		163 New St.
Hauser, Emil	S	Brooklyn, N. Y.	18	College Ave.
Havens, Donald Leston	L	Brooklyn, N. Y.		Bleecker Pl.
Helm, William Henry	S	New Brunswick	224	Suydam St.
Hickman, John Parker, Jr.	S	Asbury Park	7	Winants Hall
Hornbruch, Walter	S	Elizabeth	12	Winants Hall
Howell, Raymond Ditmars	S	New Brunswick	255	Suydam St.
Huber, Howard Frederick	S	Woodbridge		Woodbridge
Hunt, Melvin Mundy	S	South Amboy		South Amboy
Johnson, Frederick James	S	Point Pleasant	146	Winants Hall
Johnson, John Henry	A	Rahway		Rahway
Julie, Howard Anthony	S	Brooklyn, N. Y.	18	College Ave.
Koehler, George William	S	Bound Brook		Bound Brook
Lantz, Leslie Charles	S	Monroe	16	Winants Hall
Laurent, Joseph Donjon	S	Westfield	145	Winants Hall
Lees, Ralph Samuel	S	Newark	70	Winants Hall
Leonard, Lambert Jenkins	S	Highland, N. Y.	31	Hertzog Hall
Leslie, Jesse Burgess	S	Newark	22	Hertzog Hall
Low, Frederick Henry	S	Passaic	114	College Ave.
McCallum, William Henry	S	New Brunswick	68	Schureman St.
McConnell, James Roy	S	Calgary, Canada		Somerville
McDougall, Neil	S	Buffalo, N. Y.	193	George St.
McKinney, Howard Decker	S	Pine Bush, N. Y.		Bleecker Pl.
Masker, Claremont Whitmee	S	Somerville		Somerville
Menaker, George	S	Passaic	143	Winants Hall
Merrill, George Raymond	S	Washington	116	Winants Hall
Milliken, Mahlon George	S	Bloomfield		Bloomfield
Mitchell, Oliver Fritts	S	Pittstown	142	Winants Hall
Morton, Thomas Vassar	S	Newark		Newark
Mueller, Christian Jacob	S	Egg Harbor City	126	College Ave.
Mulhern, Donald Dufferin	S	Jamaica, Vt.	17	Mine St.
Nelson, Lester Ellsworth	S	New Market		New Market
Nelson, Thurlow Christian	S	Highland Park		Highland Park
Newmark, Herman Albert	S	Plainfield	84	Church St.
Obecny, Joseph S	S	Brooklyn, N. Y.	90	Winants
Opdycke, Lawrence Hall	S	West New York	25	Hertzog Hall
Orvis, Walter E	S	Rahway		Rahway
Overton, Chalmers Wolfe-Tone	S	Plainfield	77	Hamilton St.
Peacock, Walter Miller	S	Bridgeton	121	Winants Hall

REPORT OF RUTGERS SCIENTIFIC SCHOOL

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Pingry, Van Wagenen	S	Millbrook, N. Y.	18 College Ave.
Pitcher, Ralph Morgan	S	Hudson, N. Y.	114 College Ave.
Prentiss, Arthur Arnold	S	Highland Park	Highland Park
Prichard, Howard Milton	S	Sea Bright	42 Winants Hall
Putnam, John Henry Stowits	A	New Brunswick	11 Union St.
Ramsey, George Herbert	A	Olean, N. Y.	163 New St.
Randolph, Alstyn Fitz	S	New Brunswick	45 Delevan St.
Robins, George Stanley	S	Plainfield	23 Winants Hall
Rosenthal, David	S	New York, N. Y.	84 Church St.
Ross, Miles	A	New Brunswick	108 Livingston Av.
Rossell, Irving Rowland	S	Rahway	Rahway
Rue, Floyd Eldridge	S	Old Bridge	Old Bridge
Rundall, Olin Ruteledge	S	Amenia, N. Y.	87 Winants Hall
Russell, Harold Alonzo	S	Caldwell	22 Paterson St.
Savage, Charles Knebel	A	Asbury Park	Bleecker Place
Savage, Herbert Knebel	A	Asbury Park	Bleecker Place
Schecter, Morris	S	Newark	Newark
Schenck, Cornelius Frelinghuysen	S	Plainfield	20 Hertzog Hall
Schenck, Harold William	A	Plainfield	20 Hertzog Hall
Schoonmaker, Elmer Lynford	S	Paterson	22 Hertzog Hall
Sharkey, Samuel Miller	S	Trenton	81 Winants Hall
Sheffer, Homer Lewis	A	Linlithgo, N. Y.	39 Hertzog Hall
Silvers, Earle Reed	A	Rahway	Rahway
Simmons, Edward Brooks	S	Brooklyn, N. Y.	97 Winants Hall
Simon, Herbert	S	Newark	Newark
Sims, Edward Frank	S	Stelton	Stelton
Slater, James Rodenburg	S	Cairo, N. Y.	22 Paterson St.
Smedley, Horace Thomas	S	Glasboro	63 Winants Hall
Smith, Charles Wemple	A	New Brunswick	27½ Bartlett St.
Smith, Hilmar Frederick	S	New Brunswick	157 College Ave.
Smith, Sandford Roy	S	Waterloo	124 Winants Hall
Smith, Thomas Darmon	S	Milford	1 Hardenbergh St.
Sparrow, Robert Gregory	S	Brooklyn, N. Y.	77 Hamilton St.
Staat, William Ellsworth	S	New Brunswick	301 Redmond
Stackhouse, James Archer	S	Bridgeton	121 Winants Hall
Stanton, Royal Aaron	A	Lawyersville, N. Y.	Hertzog Hall
Stone, Joseph Harry	S	Trenton	Trenton
Stover, Charles Coane	S	Trenton	Bleecker Place
Stover, Edward Conklin, Jr.	S	Trenton	Trenton
Thomas, Alfred Weber	S	Short Hills	170 Somerset St.
Tobey, James Philip	S	Kingston, N. Y.	97 Winants Hall
Traver, Charles Adelbert	S	Brooklyn, N. Y.	7 Winants Hall
Turner, Robert Wilson	S	Yonkers, N. Y.	78 College Ave.
Van Deripe, Frederick Neefus	S	New Brunswick	145 Somerset St.
Van Mater, Henry Lear	S	Highland Park	Highland Park
Van Riper, Charles King	S	Paterson	41 Winants Hall
Van Wagenen, Marvin James	S	Ohioville, N. Y.	Hamilton St.

REGISTER OF STUDENTS

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Van Winkle, Theodore	S	<i>Rutherford</i>	144 Winants Hall
Watson, Harold Samuel	S	<i>New Brunswick</i>	186 George St.
Weis, Francis Elmer	S	<i>Trenton</i>	Trenton
Williams, Stanley Neale	S	<i>Westfield</i>	81 Winants Hall
Wyckoff, William LeRoy	A	<i>Jamaica, N. Y.</i>	95 College Ave.

SPECIAL STUDENTS

NOT CANDIDATES FOR A DEGREE.

A indicates Classical School; S—Scientific School

DeMeester, Peter	A	<i>Paterson</i>	33 Hertzog Hall
Gaffney, Hugh	S	<i>Jersey City</i>	18 College Ave.
Greenwood, John Loveridge	S	<i>Oshkosh, Wis.</i>	170 Somerset St.
Stout, George Walter	A	<i>New Brunswick</i>	52 Hertzog Hall

SUMMARY

FELLOW	1
GRADUATE STUDENTS	4
SENIORS, CLASS OF 1910	44
JUNIORS, CLASS OF 1911	60
SOPHOMORES, CLASS OF 1912	92
FRESHMEN, CLASS OF 1913	134
SPECIAL STUDENTS	4
 Total	 <hr/> 339

SHORT COURSES IN AGRICULTURE

STUDENTS 1909-10

G indicates Course in General Agriculture and Dairy Farming

F indicates Course in Fruit Growing and Market Gardening

Afflerbach, Harry Barnes	G	<i>Perth Amboy</i>	
Amendt, Peter Conrad	G	<i>Belvidere</i>	223 George St.
Anderer, Ambrose	G	<i>Neshanic Sta.</i>	86 Commerical Ave.
Annin, Robert Edwards	G	<i>South Orange</i>	18 Jones Ave.
Axson, Margaret Randolph	F	<i>Princeton</i>	The Bayard
Ayares, Franklin Taylor	G	<i>Salem</i>	50 Welton St.
Black, Bernard	F	<i>Milville</i>	96 Commercial Ave.
Bradshaw, Frank	F	<i>Trenton</i>	
Brandenburg, Frank Lavine	F	<i>No. Arlington</i>	92 Commercial Ave.
Buck, Littleton Kirkpatrick	G	<i>Freehold</i>	223 George St.

REPORT OF RUTGERS SCIENTIFIC SCHOOL

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Carpenter, Jacob Hockman	G	<i>Freehold</i>	178 George St.
Chanin, Isidor	F	<i>Flemington</i>	26 Peace St.
Collins, William Everett	F	<i>Monmouth Junction</i>	
Conover, Robert	G	<i>Manasquan</i>	Ryder's Lane
Cooke, Edward Ambrose	G	<i>New Brunswick</i>	7 Livingston
Cooper, Peter John	F	<i>Plainfield</i>	178 George St.
Donaldson, Roy Argyle	F	<i>East Orange</i>	83 Commercial Ave.
Douglass, Ellwood	F	<i>Cold Spring</i>	168 George St.
Drew, Leon Judson	G	<i>Vernon</i>	50 Welton St.
Dupre, James Neill	G	<i>Bloomfield</i>	270 Redmond St.
Errickson, Charles Benjamin	G	<i>Monmouth Junction</i>	
Finley, Milton Augustus	G	<i>Vineland</i>	168 George St.
Fitz Randolph, Fred	G	<i>New Brunswick</i>	222 Seaman
Fleming, Martin	G	<i>Leonardville</i>	86 Commercial Ave.
Foskett, Walter Dana	G	<i>Germantown Pa.</i>	26 Redmond St.
Fredericks, Royal Alwood	G	<i>Midvale</i>	56 New St.
Gibson, William Walter	G	<i>Princeton</i>	300 Suydam St.
Gosse, Edwin Bronson	G	<i>Morris Plains</i>	257 George St.
Greene, William	F	<i>Elm</i>	38 Bishop St.
Grieder, Emil, Jr.	F	<i>Paterson</i>	50 Welton St.
Hammond, LeRoy,	G	<i>Kingston, N. Y.</i>	178 George St.
Harvey, Frank Willard	G	<i>Pensauken</i>	222 Seaman St.
Herzog, Alfred Christopher	F	<i>Jersey City</i>	
Heuvel, James Theodore van den	G	<i>Fair View</i>	178 George St.
Hickman, Beulah	F	<i>New York, N. Y.</i>	98 Commercial
Holcombe, Harry Britton	G	<i>Lambertville</i>	26 Redmond St.
Janoff, Sophie	F	<i>Flemington</i>	308 George St.
Kelsey, William Dana	G	<i>Chester</i>	22 Jones Ave
Kirkpatrick, David Hanscom	F	<i>Jamesburg</i>	
Krausse, Albert Laurence	G	<i>New York, N. Y.</i>	18 Jones Ave.
Kuntz, Abraham M	G	<i>Metuchen</i>	
Leadam, John Estridge	F	<i>Newark</i>	83 Commercial Ave.
Lincoln, Arthur W	G	<i>South Orange</i>	
Longstreet, William	G	<i>Trenton</i>	92 Commercial Ave.
Lovendahl, Magnus Ludwig	G	<i>Burlington</i>	Ryder's Lane
Lydecker, Irving Smith	F	<i>New Brunswick</i>	R. F. D. No. 5
McDonald, James Joseph, Jr.	F	<i>Hackettstown</i>	140 George St.
Maher, Mrs. Agnes Adele	F	<i>Chester</i>	108 Suydam St.
Mills, Herbert Clyde	G	<i>Sewell</i>	223 George St.
Moore, Ellwood Burdsall	G	<i>Newtown, Pa.</i>	146 George St.
Nodine, Frank Howard	F	<i>Springfield</i>	22 Jones Ave.
Osmun, Richard Orton	G	<i>Delaware</i>	223 George St.
Otis, William Bennett	F	<i>New Brunswick</i>	142 George St.
Palmer, Raymond Arlington	G	<i>New Brunswick</i>	R. F. D. No. 3
Paul, Lyman	F	<i>Millville</i>	96 Commercial Ave.
Paul, William Mickle	F	<i>Moorestown</i>	84 Carroll Place
Peterman, Howard A	G	<i>Cherryville</i>	168 George St.

REGISTER OF STUDENTS

	<i>Course</i>	<i>Residence</i>	<i>Rooms</i>
Phillips, Brice Bedell	F	Huntsville	178 George St.
Powell, Samuel Stewart	G	Salem	50 Welton St.
Riker, George Wright	G	Trenton	
Robbers, Walter R	G	New Brunswick	R. F. D. No. 1
Roop, Marcus J	G	Ridgefield	
Schubert, Morris	G	New Brunswick	26 Peace St.
Schutzback, Israel	F	Freehold	38 Bishop St.
Shaefer, Harry Warren	G	Newtown, Pa.	56 New St.
Stevenson, Leonard DuBois	G	Bridgeton	168 George St.
Stokley, Robert Gedney	G	East Orange	Livingston Manor
Storms, George Alfred	G	Leonias	22 Jones Ave.
Sutton, Leon Woodbury	G	Annandale	Ryder's Lane
Tarlach, Leo Henry	G	Bound Brook	
Van Nuis, Charles Strong	G	New Brunswick	134 Livingston Av.
Van Nuis, Edith	F	New Brunswick	R. F. D. No. 2
Voorhees, Abram De Hart	G	Franklin Park	
Wais, William Hermann	G	New Brunswick	College Farm
Whittle, Harry Evans	F	Caldwell	

Short Course students—75.

Total student registration—414.



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